

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 60090 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 7 2012

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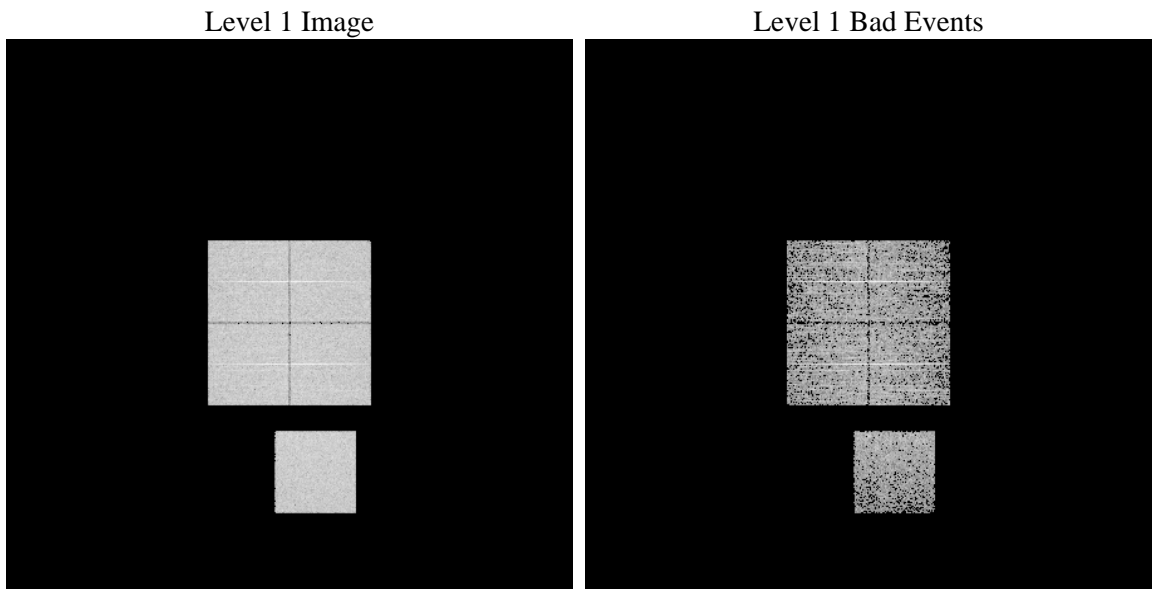
1 Front

seq_num	 	Sequence number
obs_id	60090	Observation id
title	ACIS-01237 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	323.00172915786	Nominal RA [deg]
dec_nom	-11.025846248682	Nominal Dec [deg]
roll_nom	251.36686244967	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4591.6498986185	Sum of GTIs [s]
livetime	1474.758223973	Livetime [s]
ontime0	4591.6499185264	Sum of GTIs [s]
ontime1	4591.6499185264	Sum of GTIs [s]
ontime2	4591.6499185264	Sum of GTIs [s]
ontime3	4591.6499185264	Sum of GTIs [s]
ontime7	4591.6498986185	Sum of GTIs [s]
l2events	216516	Number of level 2 events

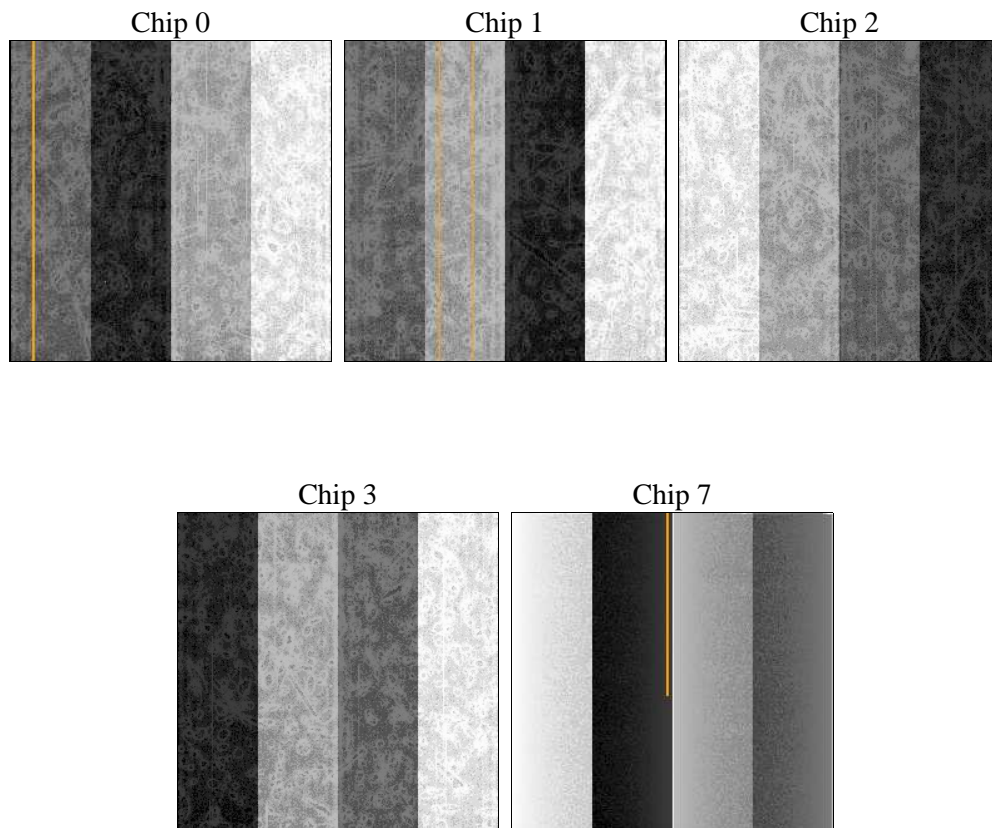
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	4591.6498986185	Sum of GTIs [s]
caldsver	4.5.4	 	ontime0	4591.6499185264	Sum of GTIs [s]
date	2012-12-07T19:28:50	Date and time of file creation	ontime1	4591.6499185264	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4591.6499185264	Sum of GTIs [s]
			ontime3	4591.6499185264	Sum of GTIs [s]
			ontime7	4591.6498986185	Sum of GTIs [s]
			l1events	304922	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	60318	58975	62064	61500	62065
rejected events	15775	14599	16954	16589	12725
rejected %	26%	24%	27%	26%	20%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	24697	24372	25297	25341	12093
	40%	41%	40%	41%	19%
grade 1 events	124	76	101	94	33
	0%	0%	0%	0%	0%
grade 2 events	7761	7842	7607	7548	11156
	12%	13%	12%	12%	17%
grade 3 events	2954	2815	2912	2968	4975
	4%	4%	4%	4%	8%
grade 4 events	2806	2921	3039	3009	4951
	4%	4%	4%	4%	7%
grade 5 events	765	786	769	913	2020
	1%	1%	1%	1%	3%
grade 6 events	6374	6477	6296	6102	16165
	10%	10%	10%	9%	26%
grade 7 events	14837	13686	16043	15525	10672
	24%	23%	25%	25%	17%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	323.0017291578565	Alternating exposures requested	Y	Y
[deg] Pointing Dec	0	-11.02584624868246	[s] Primary exposure time	1.5	1.5
[deg] Pointing Roll	0.0	251.366862449674	[s] Secondary exposure time	3.2	3.2
[mm] SIM focus pos	-0.782348	-0.6828225247311905	Duty cycle	1	1
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	209257570.51439	209257569.48938			
Observation start date	2004-08-18T23:06:11	2004-08-18T23:06:09			
[s] Observation end time (MET)	209281910.165473	209281909.14047			
Observation end date	2004-08-19T05:51:50	2004-08-19T05:51:49			
Read mode	TIMED	TIMED			

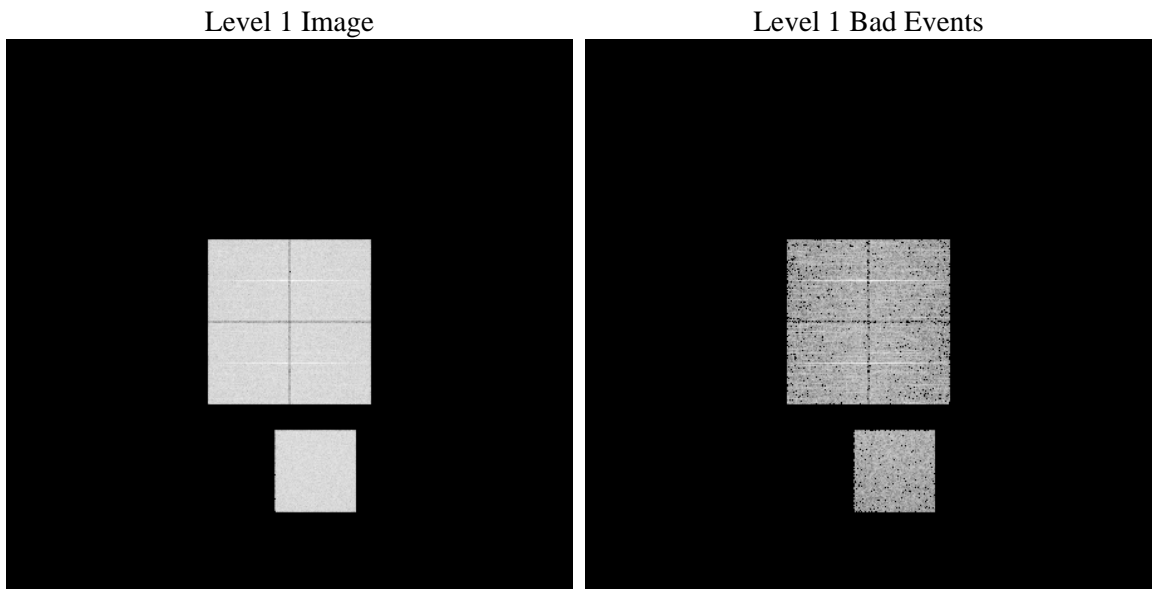
2.3 Star Slots

2.4 FID Slots

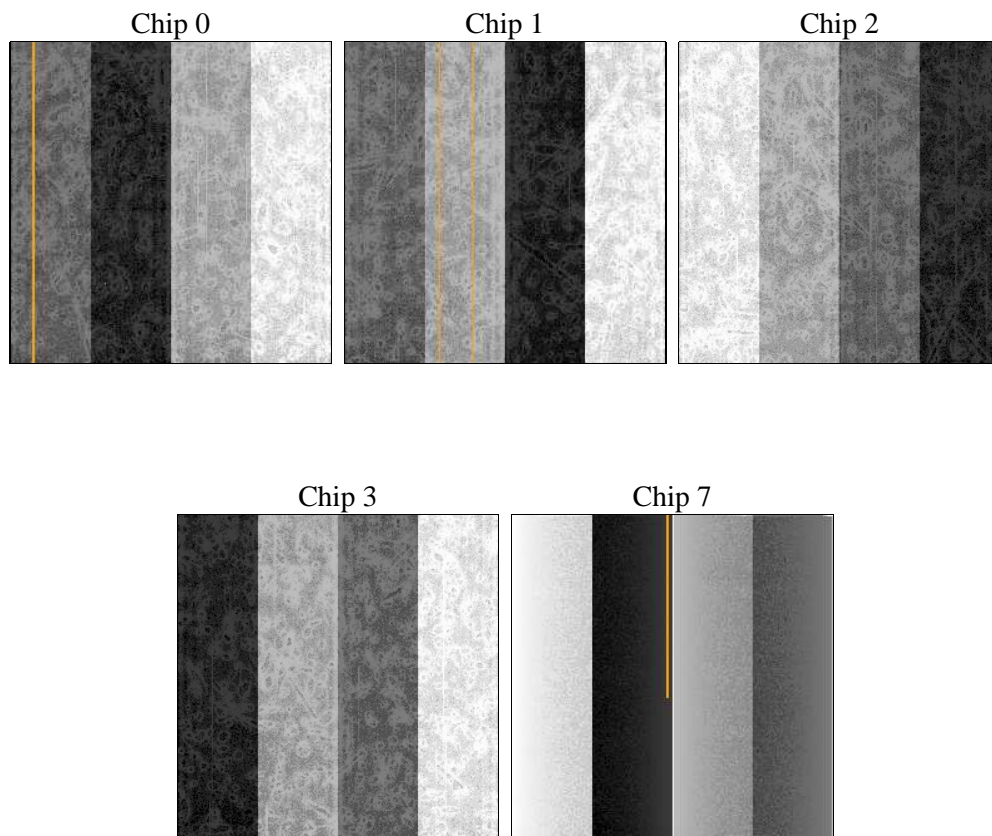
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1	Obi number			
ascdsver	8.5	Processing system revision	sched_exp_time	0.0	[s] Scheduled observation exposure time
caldbver	4.5.4	 	ontime	3189.5761252642	Sum of GTIs [s]
date	2012-12-07T19:32:54	Date and time of file creation	ontime0	3189.5763045847	Sum of GTIs [s]
revision	3	Processing version of data	ontime1	3189.5762746632	Sum of GTIs [s]
			ontime2	3189.5762746632	Sum of GTIs [s]
			ontime3	3189.5762746632	Sum of GTIs [s]
			ontime7	3189.5761252642	Sum of GTIs [s]
			l1events	576631	Number of level 1 events

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	111752	114080	115629	115545	119625
rejected events	20690	22120	23732	23419	19178
rejected %	18%	19%	20%	20%	16%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	50055	50194	51354	51580	24310
	44%	43%	44%	44%	20%
grade 1 events	270	260	363	349	81
	0%	0%	0%	0%	0%
grade 2 events	15874	16307	15490	15628	22082
	14%	14%	13%	13%	18%
grade 3 events	6055	5944	5972	6065	10170
	5%	5%	5%	5%	8%
grade 4 events	5851	5933	6076	6075	10030
	5%	5%	5%	5%	8%
grade 5 events	1346	1518	1311	1492	3498
	1%	1%	1%	1%	2%
grade 6 events	13323	13660	13095	12865	33959
	11%	11%	11%	11%	28%
grade 7 events	18978	20264	21968	21491	15495
	16%	17%	18%	18%	12%

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7812260238827

A.2 Comments